Experimental, theoretical physicists can now apply for Rosen Scholar Fellowship to work at Los Alamos Neutron Science Center

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LOS ALAMOS, N.M., Jan. 11, 2021—Experimental and theoretical scientists seeking an opportunity to pursue research in neutron scattering, dynamic materials, isotope production, and both applied and basic research in nuclear physics at the Los Alamos Neutron Science Center (LANSCE) can apply to the Rosen Scholar Fellowship.

Applications are due March 22, 2021 (note updated deadline). For application details, contact LANSCE user program coordinator Nina Roelofs at 505-665-9967, or by email at nroelofs@lanl.gov

“As Los Alamos National Laboratory’s flagship experimental facility, LANSCE, research touches almost every aspect of the Lab’s mission, and we are always looking for opportunities to push that work forward in novel ways,” said Mike Furlanetto, the LANSCE User Facility director. “The Rosen Scholar Fellowship provides the opportunity to combine the unique tools at LANSCE with some of the most creative ideas from academia to answer cutting-edge scientific questions. It is also a perfect way to commemorate the creativity of Louis Rosen, the visionary behind LANSCE.”

Research at LANSCE currently includes materials science using neutron scattering at the Lujan Center, dynamic materials at the Proton Radiography Facility, isotope production at the Isotope Production Facility, and both applied and basic research in nuclear physics at the ultra-cold neutron facility, Weapons Neutron Research facility, and the Lujan Center.

The Rosen Scholar Fellowship is reserved for individuals recognized as scientific leaders in a field of research currently performed at LANSCE and who exemplify the innovative and visionary qualities of Louis Rosen. The fellowship was created to honor the memory of Rosen, his accomplishments, his hard work, and his affection for the broad range of science performed at LANSCE. Louis Rosen’s outstanding leadership and scientific career at Los Alamos covered six-and-a-half decades and included both the initial concept for the Los Alamos Meson Physics Facility during the 1960s and its commissioning in 1972.

The Rosen Scholar is expected to be resident at LANSCE and bring their scientific expertise both to LANSCE and the broader Los Alamos scientific community. The position will support the Rosen Scholar at their current salary including relocation

expenses for up to one year. Beginning date, end date, and duration (12-month maximum) for the scholarship are flexible, but must be between October 1, 2021 and September 30, 2022.

Former Rosen Scholars can attest to the value of the fellowship. “I was extremely excited and honored to be named the 2020 Rosen Scholar, which has provided me the opportunity to devote a full semester to working at the Lab and with kindred spirits in the sub-atomic physics group,” said Tim Chupp, professor of physics, applied physics, and biomedical engineering at the University of Michigan.

“We have been developing the Lab’s neutron electric dipole moment experiment,” Chupp said. “Los Alamos has the world's best ultra-cold neutron source. The dipole moment would arise due to as-yet-undiscovered elementary particle forces that may also have produced the dominance of matter over antimatter in the early universe. I've particularly enjoyed working and learning from Los Alamos physicists, engineers and staff and hopefully bringing some of my experience to bear on this awesome project.”

“Being the 2019 Rosen Scholar Fellow was an incredible experience from a technical, professional, and human perspective,” said Paolo Rech, associate professor at the Institute of Informatics of the Federal University of Rio Grande do Sul in Brazil. Rech called Los Alamos National Laboratory “a unique place,” where outstanding researchers from the most varied fields meet.

“Whenever you have a doubt or a question, you’ll be sure to find someone with an answer or, even better, with more questions,” Rech said. “This stimulates research. Los Alamos is the right place to have new ideas and have them implemented. Moreover, the staff are very helpful, making you excited and productive from day one. Finally, Los Alamos is a wonderful place, where it is easy to be inspired, to discover impressive landscape and peaceful corners. I couldn’t be more thankful and proud of what we achieved during my year at the Lab.”

Further information about LANSCE is available online.